11/24/04

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c)) 15436.170.1							
In Re Application Of: Deng et al.  NOV 2 3 2004							
Serial No. 10/695,057	Filing Date October 28, 2003	EMARK ORD	Examiner Unknown		Group Art Unit 2828		
Title: WIDE TEMPERATI	Title: WIDE TEMPERATURE RANGE VERTICAL CAVITY SURFACE EMITTING LASER						
	Assistant Cor	Address to: nmissioner for gton, D.C. 202					
	37 (	CFR 1.97(b)					
1. A The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.							
	37 (	CFR 1.97(c)					
2. The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:							
☐ the statemen	nt specified in 37 CFR 1.97(e)	<b>)</b> ;					
OR							
☐ the fee set for	orth in 37 CFR 1.17(p).						
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TRANSMITTAL OI	Docket No. 15436.170.1					
In Re Application: Deng et al. Nov 2 3 2004						
Serial No.	Filing Date	EMARK Examiner	Group Art Unit			
10/695,057 October 28, 2003 Unknown 282						
WIDE TEMPERATURE RANGE VERTICAL CAVITY SURFACE EMITTING LASER						
	-	ment of Fee ects to pay the fee set forth in 37 CFR	1 4 47/n))			
□ A check in the amount of is attached.  □ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 23-3178 as described below. A duplicate copy of this sheet is enclosed.  □ Charge the amount of  □ Credit any overpayment.  □ Charge any additional fee required.  Certificate of Transmission by Facsimile*  Certificate of Mailing by First Class Mail  □ Certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F  □ Continue States  □ Charge any additional fee required.  Certificate of Mailing by First Class Mail  □ Certify that this document and fee is being deposited 11-23-0+1 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.  □ Continue Signature  Signature Signature of Person Mailing Correspondence						
Typed or Printed Name of Person Signing Certificate  Typed or Printed Name of Person Mailing Certificate  Typed or Printed Name of Person Mailing Certificate						
*This certificate may only be used if paying by  Courte  Signature  R. BURNS ISRAELSEN  Reg. No. 42,685  Customer No. 022913  Dated: November 23, 2004						
cc:						

CERTIFICATE OF N pplicant(s): Deng et al.	MAILING BY "EXPRESS N	1AIL" (37 CFR 1.10)	Docket No. 15436.170.1	
Serial No.	Filing Date	Examiner	Group Art Unit	
10/695,057	10/695,057 October 28, 2003 Unknown			
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	the United States Postal Service	(Identify type of correspondence)	•	
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EXPRESS MAIL NO. EV524684538US

PATENT APPLICATION Docket No: 15436.170.1

E	Docke	t No: 15436.
	TED STATES PATENT AND TRADEMARK OFF	ICE
In a application of		)
	Deng et al.	)
Serial No.:	10/695,057	) Art Unit
Confirmation No.:	5980	) 2828
Filed:	October 28, 2003	)
For:	WIDE TEMPERATURE RANGE VERTICAL CAVITY SURFACE EMITTING LASER	) ) )
Examiner:	Unknown	)

## <u>INFORMATION DISCLOSURE STATEMENT</u> <u>UNDER 37 C.F.R. § 1.97</u>

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record

believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which

the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its

entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or

relevant portion thereof is also enclosed.

Since all listed references are either in the English language or are accompanied by a

translation into English, no concise explanation of relevance is required under 37 C.F.R. §

1.98(a)(3).

DATED November 23, 2004.

Respectfully submitted,

R. BURNS ISRAELSEN

Attorney for Applicant

Registration No. 42,685

Customer No. 022913

Telephone: (801) 533-9800

RBI: kjb

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		A.H.		U.S. PAT	ENT DOCUMENTS				
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	ADEMATE		NAME	CLASS	SUBCLASS	FILING IF APPRO	
	1	5,740,191	04/14/1998	Kasper	et al.	372	34		
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				OTHED	OCUMENTS (Label 4	udhan Tid	Date Booting P	ner Etc.)	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
	Article entitled "High-Power Temperature-Insensitive Gain-Offset InGaAs / GaAs Vertical-Cavity Surface-Emitting Lasers", dated February 1993, IEEE Photonics Technology Letters Engineering Periodical, Vol. 5, No. 2, pages 129-132, by D.B. Young, J.W. Scott, B.J. Thibeault, S.W. Corzine, M.G. Peters, S.L. Lee, and L.A. Coldren						3132, by		
Article entitled "Enhanced Performance of Offset-Gain High-Barrier Vertical-Cavity Surface-Emitting Lasers", dated June 1993, IEEE Journal of Quantum Electronics, Volume 29, Number 6, pages 2013-2022, by D.B. Young, J.W. Scott, F.H. Peters, M.G. Peters, M.L. Majewski, B.J. Thibeault, Scott W. Corzine, and Larry A. Coldren									
EXAMINER				DATE CONSIDERED					
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Form PTO-A820 (also form PTO-1449) P09A/REV04

			Docket Number (Optional)	Application Number
INE	MGO	ATION DISCLOSURE CITATION	15436.170.1 Applicant(s)	10/695,057
IINE	UKWI	(Use several sheets if necessary)	Deng et al.	
			Filing Date	Group Art Unit
			October 28, 2003	2828
*EXAMINER INITIAL		OTHER DOCUMENTS (Including Author, Tit	le, Date, Pertinent Pages, Etc.)	
	4	Article entitled "Highly Efficient Vertical-Cavity S dated August 1995, IEEE Photonics Technology Le L.A. Coldren	urface-Emitting Lasers Optimized for etters, Vol. 7, No. 8, pages 851-853, by	Low-Temperature Operation", E. Goobar, M.G. Peters, G. Fish, and
	5	Article entitled "Low-Temperature (10-300 K) Challes (10-300 K) Challe	aracterization of MOVPE-Grown Ver nnology Letters, Vol. 7, No. 10, pages l.K. Hibbs-Brenner	tical-Cavity Surface-Emitting 1110-1112, by L.A. Hornak, J.C.
	6	Article entitled "Cryogenic Operation of A1GaAs- to 6 K, dated March 1996, IEEE Photonics Techno Luo, Julian Cheng, S. Hersee, S.Z. Sun, R.P. Schne	logy Letters, Vol. 8, No. 3, pages 316-3	ng Lasers at Temperatures from 200 K 318, by G. Goncher, Bo Lu, Wen-Lin
	7	Article entitled "Temperature Sensitivity of 1.54 un October 1997, IEEE Journal of quantum Electronic Klaus Streubel, Janos Andre and J. Wallin	m Vertical-Cavity Lasers with an InP- cs, Vol. 33, No. 10, pages 1839-1845, b	Based Bragg Reflector", dated y Stefan Rapp, Joachim Piprek,
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